

Claims

- [c1] A method for performing automatic testing of a system including a plurality of modules in which at least two modules lack a predetermined communication mechanism, the method comprising the steps of:
establishing at least one test goal for testing regarding at least one of a module and an interface point between modules;
providing at least one test script configured to conduct a test at each module and each interface point;
generating a test map for each test goal, each test map configured to run at least one test script for each module and each interface point in accordance with the test goal;
and
automatically testing the system using each test map.
- [c2] The method of claim 1, further comprising the step of scoring a test result for at least one of the test goal and each test script.
- [c3] The method of claim 2, wherein a test script is included in a test map only if the test script has a score that is greater than a threshold score.

- [c4] The method of claim 2, wherein the generating step includes generating a test map for a given test goal only if the given test goal has a score that is greater than a threshold score.
- [c5] The method of claim 1, further comprising the step of recording a test result for each test script.
- [c6] The method of claim 1, further comprising the step of recording each test map.
- [c7] The method of claim 1, further comprising the step of repeating the steps of generating and automatically testing after correction of a failure.
- [c8] The method of claim 1, further comprising the step of modifying the test map based on a modeling rule.
- [c9] A computer program product comprising a computer useable medium having computer readable program code embodied therein for performing automatic testing of a system including a plurality of modules in which at least two modules lack a predetermined communication mechanism, the program product comprising:
program code configured to establish at least one test goal for testing regarding at least one of a module and an interface point between modules, wherein at least one test script configured to conduct a test is provided at

each module and each interface point;
program code configured to generate a test map for each test goal, each test map configured to run at least one test script for each module and each interface point in accordance with the test goal; and
program code configured to automatically test the system using each test map.

- [c10] The program product of claim 9, further comprising the program code configured to score a test result for at least one of the test goal and each test script.
- [c11] The program product of claim 10, wherein a test script is included in a test map only if the test script has a score that is greater than a threshold score.
- [c12] The program product of claim 10, wherein the generating program code generates a test map for a given test goal only if the given test goal has a score that is greater than a threshold score.
- [c13] The program product of claim 9, further comprising program code configured to modify the test map based on a modeling rule.
- [c14] A system for performing automatic testing of a system including a plurality of modules in which at least two modules lack a predetermined communication mecha-

nism, the system comprising:

means for establishing at least one test goal for testing regarding at least one of a module and an interface point between modules, wherein at least one test script configured to conduct a test is provided at each module and each interface point;

means for generating a test map for each test goal, each test map configured to run at least one test script for each module and each interface point in accordance with the test goal; and

means for automatically testing the system using each test map.

[c15] The system of claim 14, further comprising means for scoring a test result for at least one of the test goal and each test script.

[c16] The system of claim 15, wherein a test script is included in a test map only if the test script has a score that is greater than a threshold score.

[c17] The system of claim 15, wherein the generating means generates a test map for a given test goal only if the given test goal has a score that is greater than a threshold score.

[c18] The system of claim 14, further comprising means for

recording a test result for each test script and each test map.

- [c19] The system of claim 14, further comprising means for repeating the steps of generating and automatically testing after correction of a failure.
- [c20] The system of claim 14, wherein the generating means includes means for modifying the test map based on a modeling rule.